5852 SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, CP4-9C18, 306-5429. Priority Application Date \2 Your Name Examiner # In what format would you like your results? Paper is the default. PAPER DISK **EMAIL** If submitting more than one search, please prioritize in order of need. The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers. 05-05-03 A09:27 IN Where have you searched so far on this case? Circle: USPT DWPI EPO Abs JPO Abs IBM TDB Other: What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. What types of references would you like? Please checkmark: Primary Refs Nonpatent Literature Other Secondary Refs Foreign Patents Teaching Refs ____ What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims. Staff Use Only Type of Search Searcher: Darrel Blowell Structure (#) Searcher Phone: Searcher Location: STIC-EIC2800, CP4-9C18 Date Searcher Picked Up: 576/0 ? Fulltext Date Completed: Searcher Prep/Rev Time:

FIL	E 'REGISTRY'
L1	273 S ISOPROPYL ALCOHOL
L2	1 S ISOPROPYL ALCOHOL/CN
L3	1 S METHANOL/CN
L4	1 S GLYCOL/CN
L5	0 S METHY PYRROLIDONE
L6	21 S METHYL PYRROLIDONE
L7	1 S TIN/CN
L8	
L9	0 S SNPN/CN
L10	0 S SNPB/CN
 L11	
L12	1 S TIN LEAD
L13	1687872 S IC OR ICS OR ((INTEGRATED OR LOGIC)(W)(CIRC
	UIT?)) OR (MICRO)(W)(ELETRONIC? OR CIRCUIT? OR CHIP?) OR CHIP
	OR MICROCIRCUIT OR DIE OR LOGIC(W)CIRCUIT? OR WAFER OR
	MICROELECTRONIC OR DICE
L14	474 S (COPPER OR CU)(2A)(METAL? OR STUD OR PAD)
L15	6 S (COPPER OR CU)(2A)(LAYER? OR FILM? OR
	COAT?)
FI	LE 'HCAPLUS'
L16	250703 S IC OR ICS OR ((INTEGRATED OR LOGIC)(W)(CIRC UIT?)) OR (MICRO)(W)(ELETRONIC? OR CIRCUIT? OR CHIP?) OR CHIP
	OR MICROCIRCUIT OR DIE OR LOGIC(W)CIRCUIT? OR WAFER OR
	OR MICROCIRCUIT OR DIE OR LOGIC(W)CIRCUIT. OR WILL DIE OF
	MICROELECTRONIC OR DICE 51091 S (COPPER OR CU)(2A)(METAL? OR STUD OR PAD)
L17	
L18	
	COAT?) 177688 S ELECTRICAL?(W)CONDUCT?
L19	386 S INTERMEDIATE(W)BARRIER OR (UNDER)(W)(BUMP
L20	OR PAD) OR UNDERPAD OR UNDERBUMP
1.01	168013 S POLYMERIC
L21	54693 S POLYIMIDE
L22	1334 S BENZOCYCLOBUTENE
L23	1561 S POLYBENZOXAZOLE
L24 L25	704267 S TIN OR PR OR SN OR INDIUM OR (TIN OR
L23	SN)(W)(LEAD OR PB OR INDIUM OR SILVER OR AG OR BISMUTH OR
DI)	Siv)(W)(ELIE Givi B Giv
BI) L26	8077 S ASHING
L20	461016 S ISOPROPYL(W)ALCOHOL OR METHANOL OR GLYCOL
1.47	OR METHY(W)PYRROLIDONE
L28	461045 S ISOPROPYL(W)ALCOHOL OR METHANOL OR GLYCOL
1,20	OR METHYPYRROLIDONE
L29	171351 S ETCH###
L30	70795 S (SI OR SILICON)(W)(NITRIDE OR N)
טכם	,0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

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8830 S (SILICON OR SI)(W)(OXYNITRIDE OR MONONITRID
L31
       E) OR SION OR SILICON(W)NITRIDE(W)OXIDE
       0 S (BOJKOV, C OR BOJKOV C OR BOJKOV, CHRISTO
L32
       OR BOJKOV CHRISTO)/AU
        1 S (BOJKOV, C P OR BOJKOV C P OR BOJKOV,
L33
       CHRISTO P OR BOJKOV CHRISTO P)/AU
        1 S (COFFMAN, PHILLIP OR COFFMAN PHILLIP OR
L34
       COFFMAN P OR COFFMAN, P)/AU
       446 S (SMITH, P OR SMITH P OR SMITH, PATRICIA OR
L35
       SMITH PATRICIA)/AU
       4670 S L16 AND ((L17 OR L18))
L36
       86 S L36 AND ELECTRICAL(W)RESISTANCE
L37
        0 S L37 AND WINDOW
L38
        1 S L37 AND L20
L39
        61 S L36 AND L20
L40
  FILE 'REGISTRY'
        0 S SIN/MF
L41
        6 S NSI/MF
L42
        0 S (SI AND O AND NITRIDE)/ELS AND ELC.SUB
L43
        0 S (SI AND O AND NITRIDE)/ELS AND 3/ELC.SUB
L44
       358 S (SI AND O AND N)/ELS AND 3/ELC.SUB
L45
   FILE 'HCAPLUS'
        66 S L36 AND (L45 OR L31)
L46
        59 S L46 AND (L30 OR L42)
L47
        0 S L47 AND ELECTRICAL(W)RESISTANCE
L48
       23069 S THERMOMECHANICAL OR THERMO(W)MECHANICAL
L49
        0 S L49 AND L47
L50
        59 S L47 AND L47
L51
        0 S L46 AND L49
 L52
        13 S L37 AND L19
 L53
        0 S L40 AND L19
 L54
        7 S L46 AND L19
 L55
        7 S L47 AND L19
 L56
        20 S (L53 OR L54 OR L55 OR L56)
 L57
   FILE 'REGISTRY'
        275 S POLYMERIC
 L58
        353 S POLYIMIDE
 L59
         0 S BENZOCYLOBUTENE
 L60
        155 S BENZOCYCLOBUTENE
 L61
         1 S BENZOCYCLOBUTENE/CN
 L62
   FILE 'REGISTRY'
         0 S POLYBENZOXAZOLE/CN
 L63
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8 S POLYBENZOXAZOLE L64 0 S L36 AND ((L58 OR L59 OR L60 OR L61 OR L62) L65 OR L64 OR (L21 OR L22 OR L23 OR L24)) FILE 'HCAPLUS' 376 S L36 AND ((L58 OR L59 OR L60 OR L61 OR L62) L66 OR L64 OR (L21 OR L22 OR L23 OR L24)) 51 S L66 AND ELECTRICAL?(2A)CONDUCT? L67 46 S L67 NOT L57 L68 1894 S L16 AND L17 L69 415 S L69 AND L25 L70 3683 S (SOLDER?)(W)(BALL OR BUMP OR POST OR L71 SPHERE?) OR BGA OR BALLGRID OR BALL(W)GRID OR POLYMER(W)BALL 47 S L70 AND L71 L72 92 S L70 AND ((L7 OR L8 OR L9 OR L10 OR L11 OR L73 L12)) 16 S L73 AND L71 L74 47 S (L74 OR L72) NOT L57 L75 5324 S L16 AND (L27 OR L28 OR (L1 OR L2 OR L3 OR L76 L4 OR L5 OR L6)) 0 S L76 AND DRY(W)CHEMICAL(W)VAPOR L77 0 S L76 AND ULTRASONIC(W)ENERGY L78 15 S L76 AND OXYGEN(W)PLASMA L79 12 S L76 AND O(W)PLASMA L80 1 S L76 AND (HYDROGEN OR H)(W)PLASMA L81 435 S L76 AND L29 L82 39 S L82 AND (SPUTTER? OR PVD OR PHYSICAL(W)VAPO L83 R(W)DEPOSITION) 39 S L83 NOT (L74 OR L72 OR L57) L84 106 S L83 OR L74 OR L72 OR L57 L85 SEL PN 56 S (EP930642/PN OR EP978870/PN OR WO2002052642 L86 /PN OR CA2051604/PN OR DE10050049/PN OR DE2601765/PN OR EP1058944/PN OR EP1207546/PN OR EP533575/PN OR EP678903/PN OR FR2815359/PN OR GB1476599/PN OR JP02224233/PN OR JP05109673/PN OR JP05195287/PN OR JP05217966/PN OR "JP06036416 B4"/PN OR JP06112213/PN OR JP06204186/PN OR JP06295898/PN OR JP07263361/P N OR JP07297175/PN OR JP07302786/PN OR JP07321097/PN OR JP07331445/PN OR JP08124920/PN OR JP09237821/PN OR JP11298046/P N OR JP2000114246/PN OR JP2000188286/PN OR JP2001093928/PN OR JP2002141348/PN OR JP2002164437/PN OR JP2002278090/PN OR

JP2002505504/PN OR JP2003115535/PN OR "JP2528962 B2"/PN OR "JP2979284 B2"/PN OR "JP3004165 B2"/PN OR "JP3062393 B2"/PN OR "JP3098203 B2"/PN OR "JP3162245 B2"/PN OR "JP3208008 B2"/PN OR "JP3256707 B2"/PN OR "JP3328625 B2"/PN OR JP51086043/PN OR

"JP55035238 B4"/PN OR JP60102750/PN OR JP64000285/PN OR KR2000017156/PN OR TW387096/PN OR TW393591/PN OR TW432118/PN OR TW468245/PN OR US2001013504/PN OR US2001023744/PN OR US2001027843/PN OR US2001044197/PN OR US2002011674/PN OR US2002013063/PN OR US2002023720/PN OR US2002048969/PN OR US2002081834/PN OR US2002088547/PN OR US2002094694/PN OR US2002127565/PN OR US2002136967/PN OR US2002139476/PN OR US2002155723/PN OR US2002196996/PN OR US2003017580/PN OR US2003017581/PN OR US2003022477/PN OR US2003026891/PN OR US2003027328/PN OR US2003032039/PN OR US2003032274/PN OR US2003059855/PN OR US2003060048/PN OR US2003067079/PN OR US2003068657/PN OR US2003077660/PN OR US3809625/PN OR US4097266 /PN OR US4224085/PN OR US5007981/PN OR US5200017/PN OR US5320707/PN OR US5320709/PN OR US5423974/PN OR US5468686/PN OR US5578163/PN OR US5597110/PN OR US5747381/PN OR US5853960/PN OR US5866481/PN OR US5868854/PN OR US5888309/PN OR US5900103/P N OR US5904560/PN OR US5972793/PN OR US6033996/PN OR US6080636/ PN OR US6106737/PN OR US6194326/PN OR US62 448 S (L33 OR L34 OR L35) L87 9 S L87 AND L16 L88 FILE 'WPIX, JAPIO' 72 S L86 L89 910812 S IC OR ICS OR ((INTEGRATED OR LOGIC)(W)(CIRC L90 UIT)) OR (MICRO)(W)(ELETRONIC? OR CIRCUIT OR CHIP) OR CHIP OR MICROCIRCUIT OR DIE OR LOGIC(W) CIRCUIT? OR WAFER OR **MICROELECT** RONIC OR DICE 24041 S (COPPER OR CU)(2N)(METAL? OR STUD OR PAD) L91 35349 S (COPPER OR CU)(2N)(LAYER? OR FILM? OR L92 COAT?) 101449 S ELECTRICAL?(W) CONDUCT? L93 73733 S POLYMERIC L94 46720 S POLYIMIDE L95 473 S BENZOCYCLOBUTENE L96 650 S POLYBENZOXAZOLE L97 175913 S TIN OR PB OR SN OR INDIUM OR (TIN OR L98 SN)(W)(LEAD OR PB OR INDIUM OR SILVER OR AG OR BISMUTH OR BI) ISOPROPYL(W) ALCOHOL OR METHANOL OR GLYCOL L99 187701 S

	OR METHY(W) PYRROLIDONE	
L100	COLOR CILICONIVIVIVILIBRIUE UK INI	
L101	4407 C (SILICON OR SI)(W)(OXYNIKIDE OK MONONITIOE	
Lioi	- or grove or cit (CON(W) NERIDE WI UALDE	
L102	2 S (BOJKOV, C OR BOJKOV C OR BOJKOV, CHRISTO	
L102	OR DOWN CHRIST()/AL	
L103	0.S. (COFFMAN, PHILLIP OR COFFMAN PHILLIP OR	
	COFFMAN DOD COFFMAN PI/AU	
L104	216 S (SMITH, P OR SMITH P OR SMITH, PATRICIA OR	
Бтот	CMITH DATRICIA)/AU	
L105	0110 S T 00 AND ((I 94 OR L95 OR L96 OR L97))	
L106	CARL TIOS AND (OXYGEN OR O)(W)(PLASMA)	_
L107	OC I 106 AND (HYDROGEN OR H)(W)(PLASMA)	
L108	2 C T 106 AND (HVDROGEN OR H)(W)(PLASIMA)	
L109	71181 S (SPUTTER? OR PVD OR PHYSICAL(W) VAI OR(W)	
	DEPOSITION)	
L110	7 S L106 AND L109	
L111	3815 S L90 AND L99	
L112	14 S L111 AND (OXYGEN OR O)(W)(PLASMA)	
L113	1 S L111 AND (HYDROGEN OR H)(W)(PLASMA)	
L114	12 S ((L102 OR L103 OR L104)) AND L90	
L115	25 S L108 OR L110 OR L112 OR L113	
L116	12 S L114 NOT L115	